

Title (en)

PROCESS FOR PRODUCING COPPER ALLOY SPUTTERING TARGET

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES KUPFERLEGIERUNGSSPUTTERTARGETS

Title (fr)

PROCEDE DE FABRICATION D'UNE CIBLE DE PULVERISATION CATHODIQUE EN ALLIAGE DE CUIVRE

Publication

EP 1602747 A1 20051207 (EN)

Application

EP 04712732 A 20040219

Priority

- JP 2004001914 W 20040219
- JP 2003071721 A 20030317

Abstract (en)

Provided is a copper alloy sputtering target containing 0.01 to (less than) 0.5wt% of at least 1 element selected from Al or Sn, and containing Mn or Si in a total amount of 0.25wtppm or less. The above copper alloy sputtering target allows the formation of a wiring material for a semiconductor element, in particular, a seed layer being stable, uniform and free from the occurrence of coagulation during electrolytic copper plating and exhibits excellent sputtering film formation characteristics. A semiconductor element wiring formed with this target is also provided.

IPC 1-7

C23C 14/34; H01L 21/28; H01L 21/285; H01L 21/768; C22C 9/01; C22C 9/02

IPC 8 full level

C23C 14/34 (2006.01); **H01L 21/285** (2006.01)

CPC (source: EP KR US)

C22C 9/00 (2013.01 - EP KR US); **C22C 9/01** (2013.01 - EP US); **C23C 14/3414** (2013.01 - EP KR US); **H01L 21/2855** (2013.01 - EP KR US)

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DOCDB simple family (publication)

EP 1602747 A1 20051207; **EP 1602747 A4 20080827**; **EP 1602747 B1 20110330**; CN 100439558 C 20081203; CN 1771349 A 20060510; DE 602004032015 D1 20110512; EP 2264215 A2 20101222; EP 2264215 A3 20110316; JP 4223511 B2 20090212; JP WO2004083482 A1 20060622; KR 100700885 B1 20070329; KR 20050108384 A 20051116; TW 200422415 A 20041101; TW I248468 B 20060201; US 2006088436 A1 20060427; US 2010219070 A1 20100902; US 7740721 B2 20100622; US 9765425 B2 20170919; WO 2004083482 A1 20040930

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